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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/676,041	10/02/2003	Kenya Ishii	103660.01	6933

25944 7590 06/08/2006

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EXAMINER

LAO, LUN YI

ART UNIT	PAPER NUMBER
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2629

DATE MAILED: 06/08/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/676,041	ISHII ET AL.	
	Examiner	Art Unit	
	LUN-YI LAO	2629	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-11 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>12/29/05, 4/14/05, 7/1/05 and 10/2/05</u> | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Kazuhiro et al(JP03-180890).

Kazuhiro teaches a liquid crystal device comprising: a first operation mode conducting sequential driving(see figures 8-11); a second operation mode conducting simultaneous-multiple driving(see figures 1-3); an input unit(6) selecting one of the first operation mode and the second operation mode; and a control unit switching between the operation modes according to output of the input unit(see figures 1-3, 8-11 and abstract).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kazuhiro et al in view of Matsumoto et al(5,400,050).

Kazuhiro et al fail to point out the display device for supplying image signal without a serial-parallel converter.

Matsumoto et al teach an LCD display for supplying image signal(30) without a serial-parallel converter(see figure 1B and column 5, lines 18-26). It would have been obvious to have modified Kazuhiro et al with the teaching of Matsumoto et al, so as to reduce the cost of an LCD display by eliminating the serial-parallel converter.

5. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kazuhiro et al in view of Aoki(6,831,622).

Kazuhiro et al fail to point out the display device for supplying image signal having a serial-parallel converter.

Aoki teaches an LCD display for supplying image signal(VID) having a serial-parallel converter(302)(see figure 1 and column 9, lines 36-49). It would have been obvious to have modified Kazuhiro et al with the teaching of Aoki, so image signals could be simultaneously sampled.

6. Claims 4 and 7-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kazuhiro et al in view of Yamazaki(5,956,082).

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Kazuhiro et al fails to disclose a motion detector for detecting the presence or absence of motion in an image to be displayed.

Yamazaki teaches a display system a motion detector(24) for detecting the presence or absence of motion in an image to be displayed and a controller(22, 23) switching between the operation mode according to the detecting result(see figure 3; column 5, lines 18-68 and column 6, lines 1-17). It would have been obvious to have modified Kazuhiro et al with the teaching of Yamazaki, so to automatically display an image in an optimum display mode suited to the kind of image to be displayed(see column 6, lines 15-18).

As to claim 7, Kazuhiro teaches an input unit setting whether an image to be input as a video signal or an image to be input as an RGB signal is displayed(see figures 2-3, 8-11 and abstract).

As to claims 8-9, Kazuhiro as modified teach the image signal processing circuit switching to the first operation mode when there is any motion or rapid motion contained in an image represented by the input image signal since Yamazaki teach a method for switching an image in an optimum display mode suited to the kind of image to be displayed(see column 6, lines 15-18).

As to claims 10 and 11, Kazuhiro as modified teach the image signal processing circuit switching to the second operation mode when there is no motion or some motion detected in the image to be display since Yamazaki teach a method for switching an image in an optimum display mode suited to the kind of image to be displayed(see column 6, lines 15-18).

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7. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kazuhiro et al in view of Yamazaki and Matsumoto et al(5,400,050).

Kazuhiro et al as modified fail to point out the display device for supplying image signal without a serial-parallel converter.

Matsumoto et al teach an LCD display for supplying image signal(30) without a serial-parallel converter(see figure 1B and column 5, lines 18-26). It would have been obvious to have modified Kazuhiro et al as modified with the teaching of Matsumoto et al, so as to reduce the cost of an LCD display by eliminating the serial-parallel converter.

8. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kazuhiro et al in view of Yamazaki and Aoki(6,831,622).

Kazuhiro et al as modified fail to point out the display device for supplying image signal having a serial-parallel converter.

Aoki teaches an LCD display for supplying image signal(VID) having a serial-parallel converter(302)(see figure 1 and column 9, lines 36-49). It would have been obvious to have modified Kazuhiro et al as modified with the teaching of Aoki, so image signals could be simultaneously sampled.

Conclusion

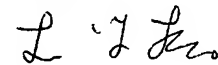
9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lun-yi Lao whose telephone number is 571-272-7671. The examiner can normally be reached on M-F.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached on 571-272-7681. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

May 30, 2006



Lun-yi Lao
Primary Examiner